

**Abstract of the Disclosure**

An irrigation system controller communicates with peripheral sensors using control valve wires as the medium over which to send and receive electronic signals. Various types of sensors such as soil moisture, temperature, etc., can be interfaced to this system. A sensor that is near a control valve can be connected to the control valve wires, eliminating the need to run additional sensor wires back to the controller. Installation costs are reduced because of less wire to run.

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